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7 Pages

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**PHOTOGRAPHIC INTERPRETATION REPORT**

# CHANGES AT ROCKET ENGINE TEST FACILITY NEAR ZAGORSK, USSR

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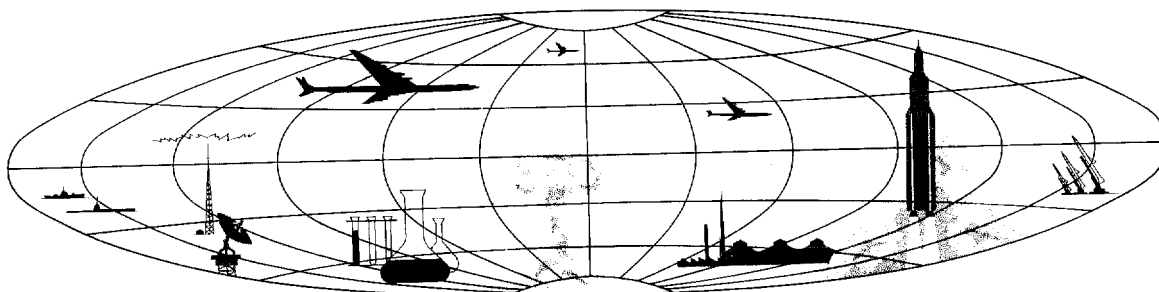
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## CHANGES AT ROCKET ENGINE TEST FACILITY

NEAR ZAGORSK, USSR

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The Zagorsk Rocket Engine Test Facility is situated at 56-25N 38-10E, 7 nautical miles (nm) north-northeast of Zagorsk, USSR, and 44 nm northeast of Moscow (Figure 1). This facility has been the subject of previous photographic interpretation reports, the most recent of which was based on photogra-

phy from [ ] coverage through Mission [ ] 1/ The purpose of this report is to record changes in the facility observed on photography from six subsequent [ ] missions, the latest of which took place on [ ]

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## GENERAL DESCRIPTION

The Zagorsk Rocket Engine Test Facility consists of one large and three smaller vertical test stands, three control buildings, one large checkout/assembly building, two medium-

sized support buildings, three smaller checkout buildings, a steam plant, and associated support, storage, and housing facilities (Figures 2 and 3). The area containing the test stands is secured

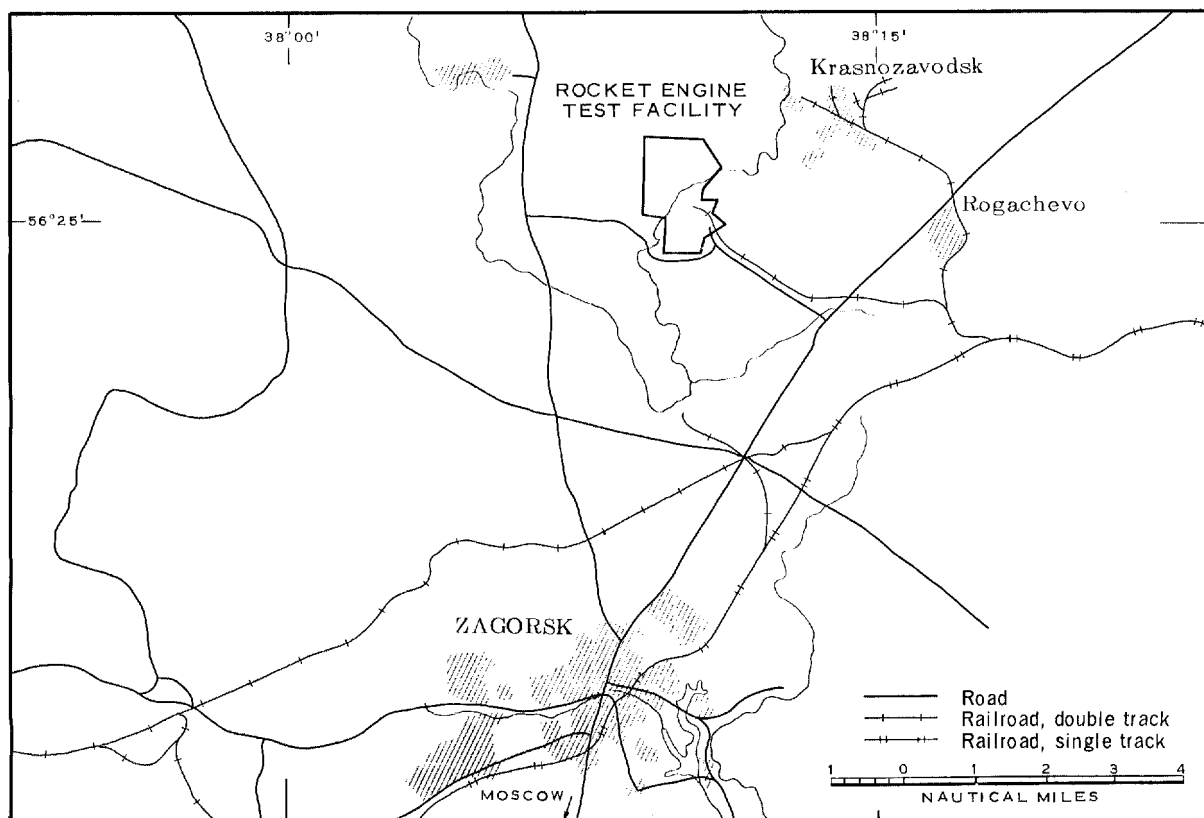


FIGURE 1. LOCATION MAP.

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FIGURE 2. ROCKET ENGINE TEST FACILITY NEAR ZAGORSK, USSR,



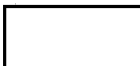
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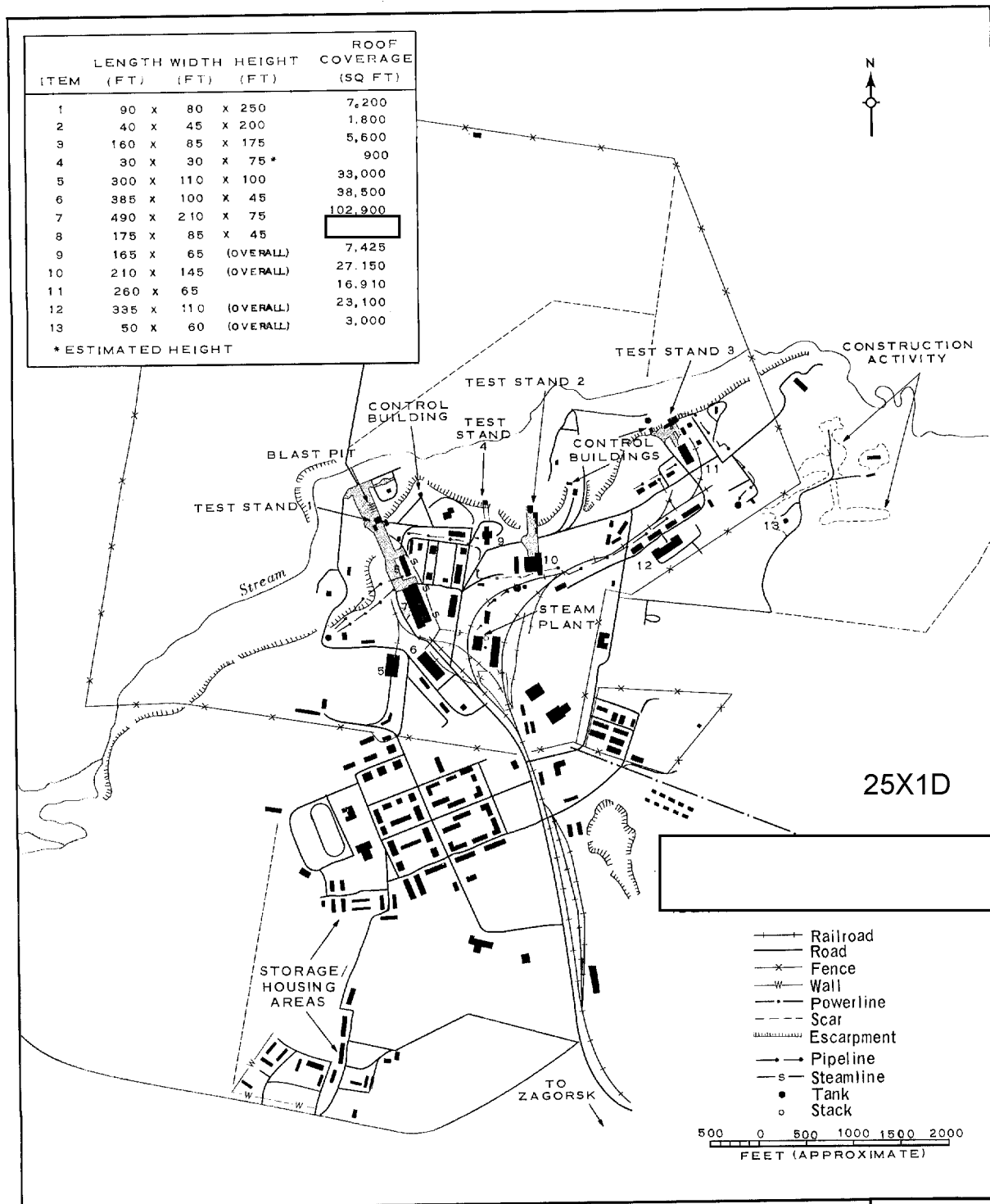


FIGURE 3. ROCKET ENGINE TEST FACILITY NEAR ZAGORSK, USSR.

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by a fence; housing, storage, and general support areas are situated immediately to the south and southeast.

Significant construction that occurred during the period [ ]

included an addition to the large checkout/assembly building (item 7, Figure 3) which doubled its size, a new high-bay support building (item 5), and a new road giving access to the facility from the west. 1/

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CHANGES SINCE [ ]

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Photography of [ ] was of good quality and revealed an additional small vertical test stand (item 4, Figure 3) that had been present but not identifiable since [ ]

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Also visible on this photography was a new support building (item 8) on the apron of the largest test stand, a building (item 12) that had been completed on a site where construction activity had been observed in [ ] and new construction activity just east of the secured portion of the facility. Photography of [ ] and [ ] revealed no changes except for continued construction activity on the east.

Photography of [ ] (Figure 2) is the best to date and reveals details of buildings and pipeline connections that had not previously been observed. The continuing construction activity to the east of the facility is seen to consist of two structures, one of which (item 13) is of unusual configuration, several excavations and ground scarring, and a trace or scar that suggests a future enlargement of the secured area. The unusual structure (item 13) appears to be in the early stages of construction. Dimensions of the principal buildings in the test area are presented in the table inset on Figure 3.

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#### TEST STANDS

Perspective drawings of the four vertical test stands are presented on Figure 4. All building dimensions and distance measurements presented in the following discussion of the test stands are approximate unless otherwise qualified.

##### TEST STAND 1

Test Stand 1 is situated at the end of a 90-foot-wide ramp that extends 800 feet from a large rail-served checkout/assembly building (item 7). The width of the ramp increases to 260 feet in front of the checkout/assembly building to form a large apron upon which is situated a support building that is connected to the large checkout/assembly building by two overhead pipelines or possible traveling cranes. Other pipelines,

one from each of these two buildings, lead to a tank situated to the southwest on a bluff. A steamline leads from the steam plant past the assembly/checkout and support buildings to this test stand.

The main superstructure of Test Stand 1 is 90 feet long by 80 feet wide and is estimated to have a height of 125 feet above the level of the ramp. Its overall height above the blast pit is 250 feet; this blast pit contains what appears to be a sump for a water cascade blast deflector cooling system. A control building is situated on a bluff 500 feet to the northeast; a high-bay support building (item 5) and a second support building (item 6) are nearby. These structures together with the large assembly/checkout building form an extensive support complex for Test Stand 1.

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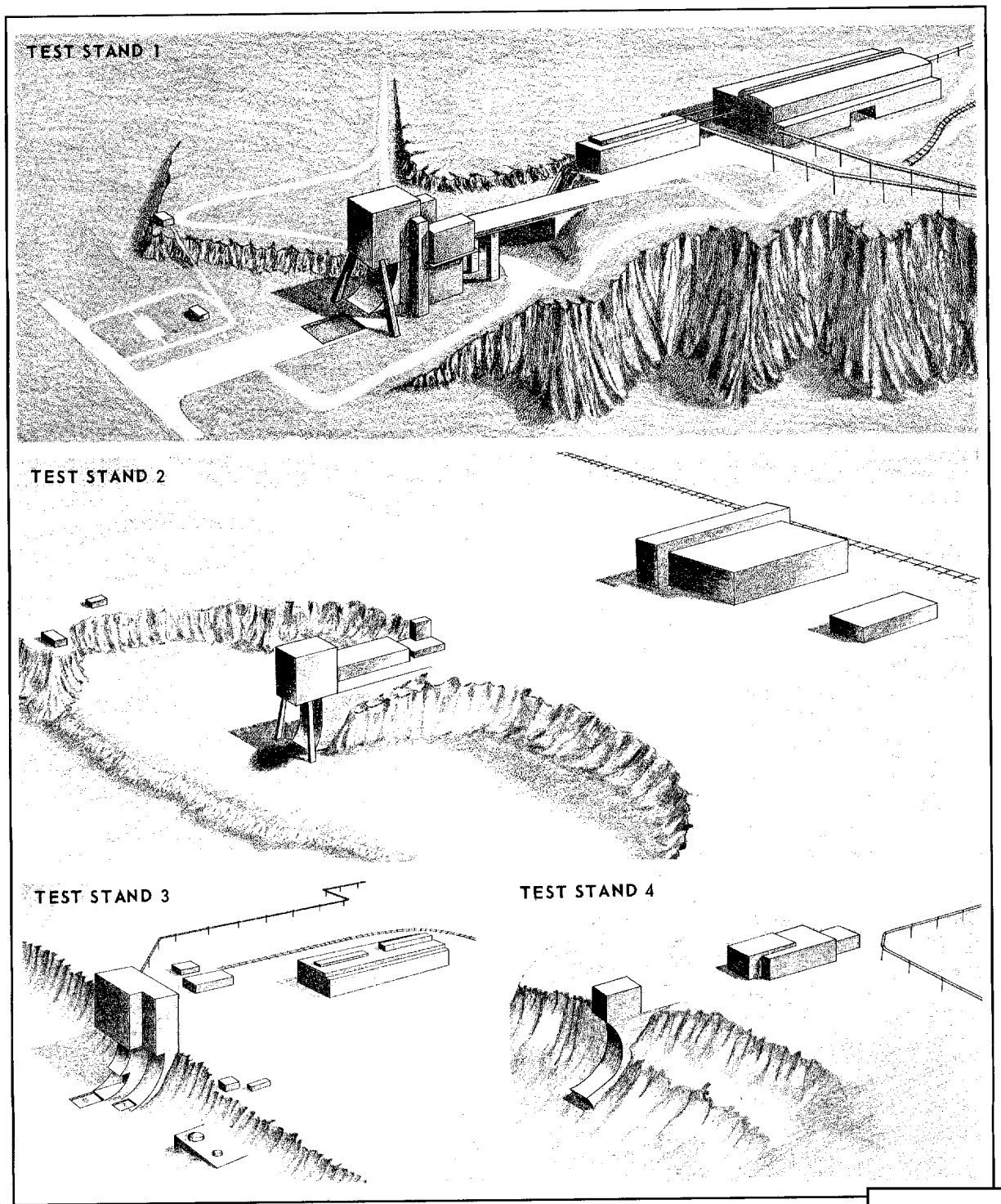


FIGURE 4. PERSPECTIVE DRAWINGS OF THE FOUR VERTICAL TEST STANDS AT THE ZAGORSK FACILITY.

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**TEST STAND 2**

Test Stand 2 is situated at the end of a 75-foot-wide ramp upon which are located two low structures and a taller structure which is poorly defined. The stand measures 40 by 45 feet, and its height from the bottom of the blast pit to the top of the stand is 200 feet. The superstructure itself is estimated to be 75 feet high. A small control building is situated 500 feet to the east, and a checkout building (item 10) with a high-bay section 55 feet high is 450 feet to the south. The checkout building is connected to the ramp by a wide apron. A small blast mark was observed at this stand in [REDACTED]

feet wide on the west end, and 45 feet wide on the east end. There appear to be two test positions in the stand and a small sump for each position. The easternmost position has a height of 175 feet, measuring from the bottom of the blast pit to the top of the stand. The westernmost position appears to be resting on somewhat higher ground, and its overall height is therefore slightly less. The superstructure of the stand is estimated to be 100 feet high. A pipeline, probably for water, serves the stand from a tank approximately 1,300 feet to the southeast.

**TEST STAND 4**

Test Stand 4 is positioned on a bluff between Test Stands 1 and 2. A multilevel, possibly drive-through checkout building (item 9) is situated 200 feet south of the stand with which it is connected by a 30-foot-wide road. The stand is estimated to have a height of 75 feet, measuring from the blast deflector to the top of the superstructure. The blast deflector does not appear to rest on the bottom of the ravine.

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**TEST STAND 3**

Test Stand 3 is positioned against the side of a ravine 245 feet north of a checkout building (item 11) with which it is connected by a 25-foot-wide road. A wide apron is immediately behind the stand. The test stand is 160 feet long, 35

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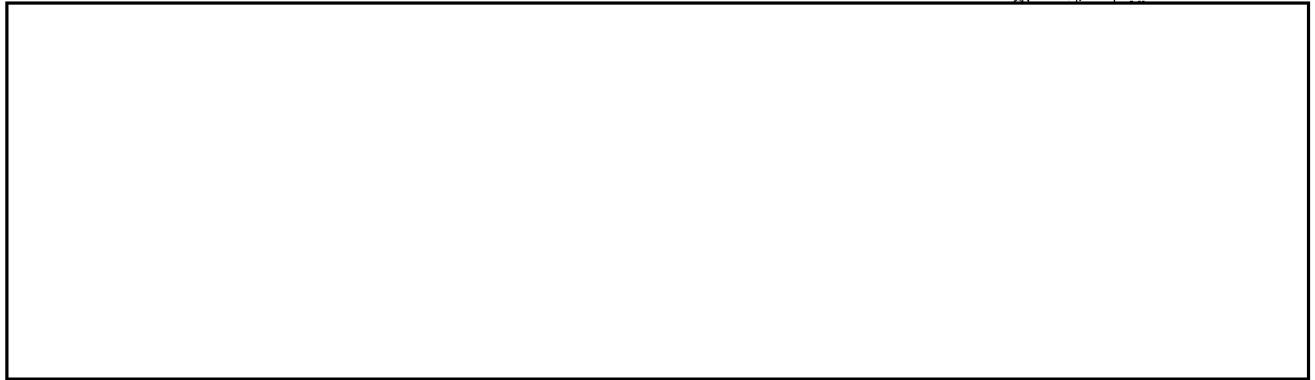
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REFERENCES

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PHOTOGRAPHY



MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0154-23III, 2d ed, Apr 63, scale 1:200,000 (SECRET)

DOCUMENTS

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1. NPIC. R-284/64, *Rocket Test Facility near Zagorsk*, May 64 (TOP SECRET)

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REQUIREMENT

CIA. C-RR4-81,679

NPIC PROJECT

N-863/64 (partial answer)

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